

# INTRODUCTORY COMMENTS

## **Preface**

This Handbook is a guide for those approving manufactured homes on permanent foundations -- HUD Field Offices involved in the approval process and manufacturers and site owners who are seeking approval.

There are two acceptable methods for owners or developers to use in seeking HUD Approval: (1) Furnish foundation drawings and design calculations prepared and sealed by a licensed professional for foundation concepts shown in Appendix A and other foundation concepts not covered in the Handbook. The design criteria and requirements of Chapters 1-7 of the Handbook shall be followed in Method (1) and does not require the submittal of Appendix F (Appendix F instructions in paragraph 103 do not apply to Method 1.) Or (2) Furnish the Design Worksheet (Appendix F) prepared by a licensed professional in accordance with the Handbook. Method (2) does not require design calculations. Methods (1) & (2) both require submittals of Appendix E. See Table i - 1 on page ii.

The Foundation Concepts (Appendix A) are considered permanent foundations. Permanent foundations are those that have been engineered for safety and long-term satisfactory performance. These foundations were also designed specifically for use with manufactured homes. The Handbook contains construction recommendations that assure the home, the foundation and the site are all compatible. Because these recommendations are based on estimated conditions, it is important to have complete information for each manufactured home and its site.

## **Manufacturer-Supplied Information**

Information about the home must be provided by the manufacturer. To simplify the approval process, the manufacturer may wish to prepare a Manufacturer's Worksheet for each standard foundation system. The Manufacturer's Worksheet is in Appendix E.

## **Owner-Supplied Information**

Information about the building site must be provided by the owner. The size of the foundation, the depth of the footings, and the anchorage requirements depends on the building's site. This information should be submitted on the Owner's Site Acceptance Worksheet (Appendix E).

## **Handbook: Site Conditions**

Chapters 2 and 3 of the Handbook contain recommendations for site preparation. They also point out unusual site conditions that may call for additional geotechnical engineering reports, such as sloping sites and problem soils. This documentation must also be submitted if problem sites are found.

## **Handbook: Foundation Design Concepts**

Companies building manufactured homes have assisted in the preparation of this handbook by providing foundation design concepts appropriate for manufactured housing. This information was assembled and used as the basis for the Foundation Design Concepts in Appendix A.

The Handbook provides information about three basic foundation types and six alternative types. Appendix A shows which foundation designs can be used on sites with special requirements, such as windy sites.

**Handbook: Design Verification**

The Handbook's format is arranged for a licensed professional to progress through a se-

ries of logical steps designated to lead to approval. The HUD Field Office at their prerogative may review the Design Worksheet.

Technical assistance to determine acceptability of individual designs of permanent foundation systems should be obtained from a licensed professional engineer.

TITLE	Method (1)	Method (2)
Foundation Drawings (Prepared & Sealed by Licensed Professional)	Yes	No
Design Calculations (Prepared & Sealed by Licensed Professional)	Yes	No
Design Criteria Chapters 1-7	Yes	Yes
Appendix A - Foundation Concepts	Yes	Yes
Other Foundation Concepts	Yes	No
Appendix E (Owner's Site Acceptability & Manufacturer's Worksheets)	Yes	Yes
Appendix F Design Worksheet (Prepared & Sealed by Licensed Professional)	No	Yes

Table i - 1